

KAF-1010/3010R

SERVICE MANUAL

KENWOOD

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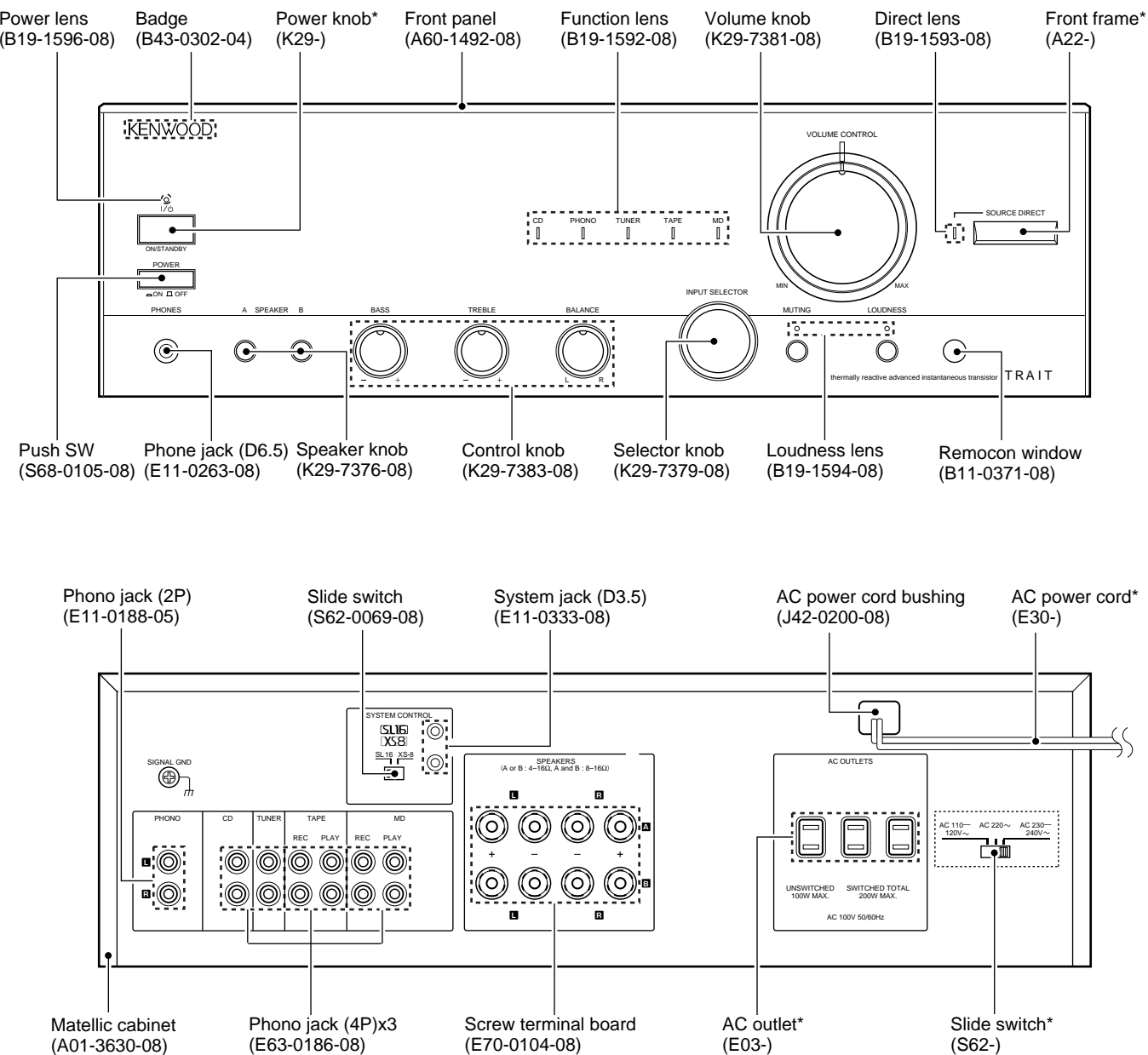


Illustration is KAF-3010R.

* Refer to parts list on page 18.

Caution : No connection of ground line if disassemble the unit.

Please connect the ground line on rear panel, PCBs, Chassis and some others.

KAF-1010/3010R

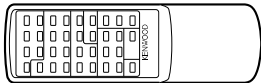
CONTENTS / ACCESSORIES

Contents

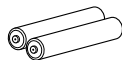
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Accessories

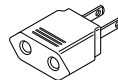
Remote control unit (1)
(A07-1232-08)
(KAF-3010R only)



Batteries (R6/SUM-3) (2)
(KAF-3010R only)



AC plug adaptor (1)
(E03-0115-05)



Use to adapt the plug on the power cord to the shape of the wall outlet. (Accessory only for regions where use is necessary.)

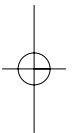
Caution

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while power is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

Set the POWER to OFF then, while holding down the REMOTE POWER key, set the MAIN POWER key to ON.

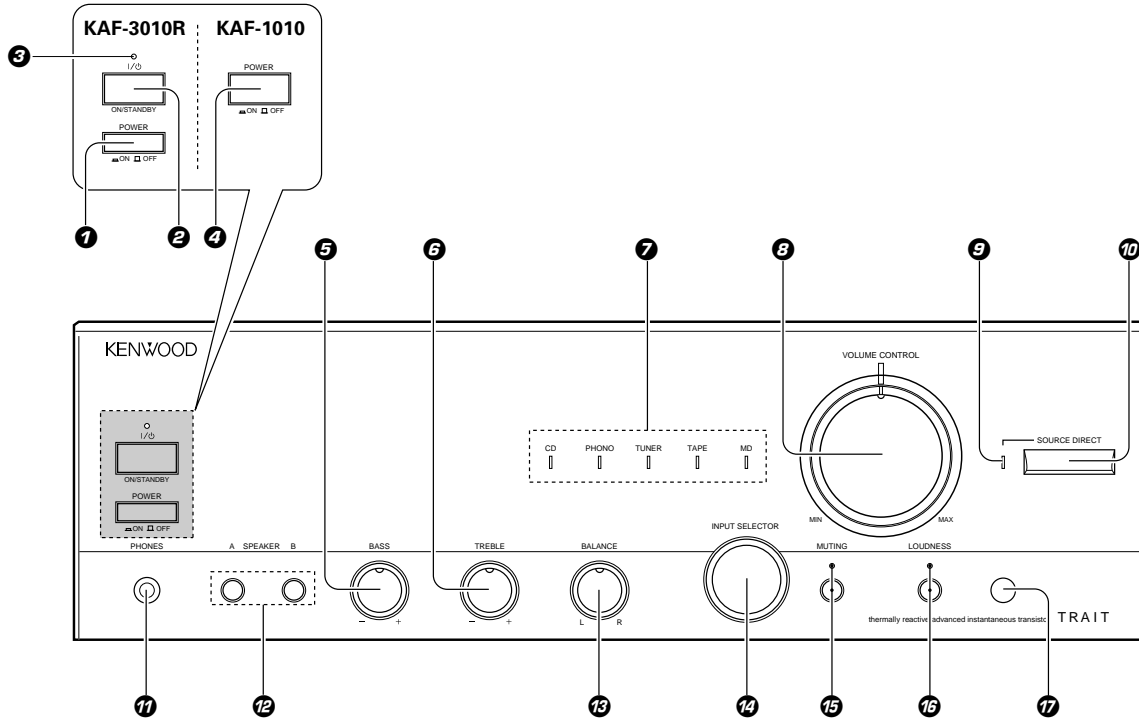
- Please note that resetting the microcomputer clears the contents stored in it and returns it to the condition when it left the factory.



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CONTROLS

Main unit



1 POWER switch (KAF-3010R)

Usually leave this switch to the on position.
When the unit is not to be used for a long period of time, set the switch to the **OFF** position for safety.

2 ON/STANDBY key (KAF-3010R)

This key effective when the **POWER** key is set to the on (standby) position, and pressing this key turns power **ON** and off (standby).

3 Standby indicator (KAF-3010R)

4 POWER switch (KAF-1010)

5 BASS knob

To adjust low frequencies.

6 TREBLE knob

To adjust high frequencies.

7 INPUT indicator

An indicator lights for the source selected with the **INPUT SELECTOR** knob.

8 VOLUME CONTROL knob

Adjust the volume.

9 SOURCE DIRECT indicator

Usually leave this switch to the on (standby) position.

10 SOURCE DIRECT key

To listen to a source with high quality sound.

11 PHONES jack

Used for headphone listening.

12 SPEAKERS A/B switches

Press to select the A and/or B speaker systems.

13 BALANCE knob

Adjust the volume balance between left and right.

14 INPUT SELECTOR knob

Turn to select the input sources.

15 MUTING key/indicator

Mute the sound temporarily.

16 LOUDNESS key/indicator

Use to emphasize deep bass sounds.

17 Remote sensor (KAF-3010 ONLY)


About the standby indicator (KAF-3010R only)

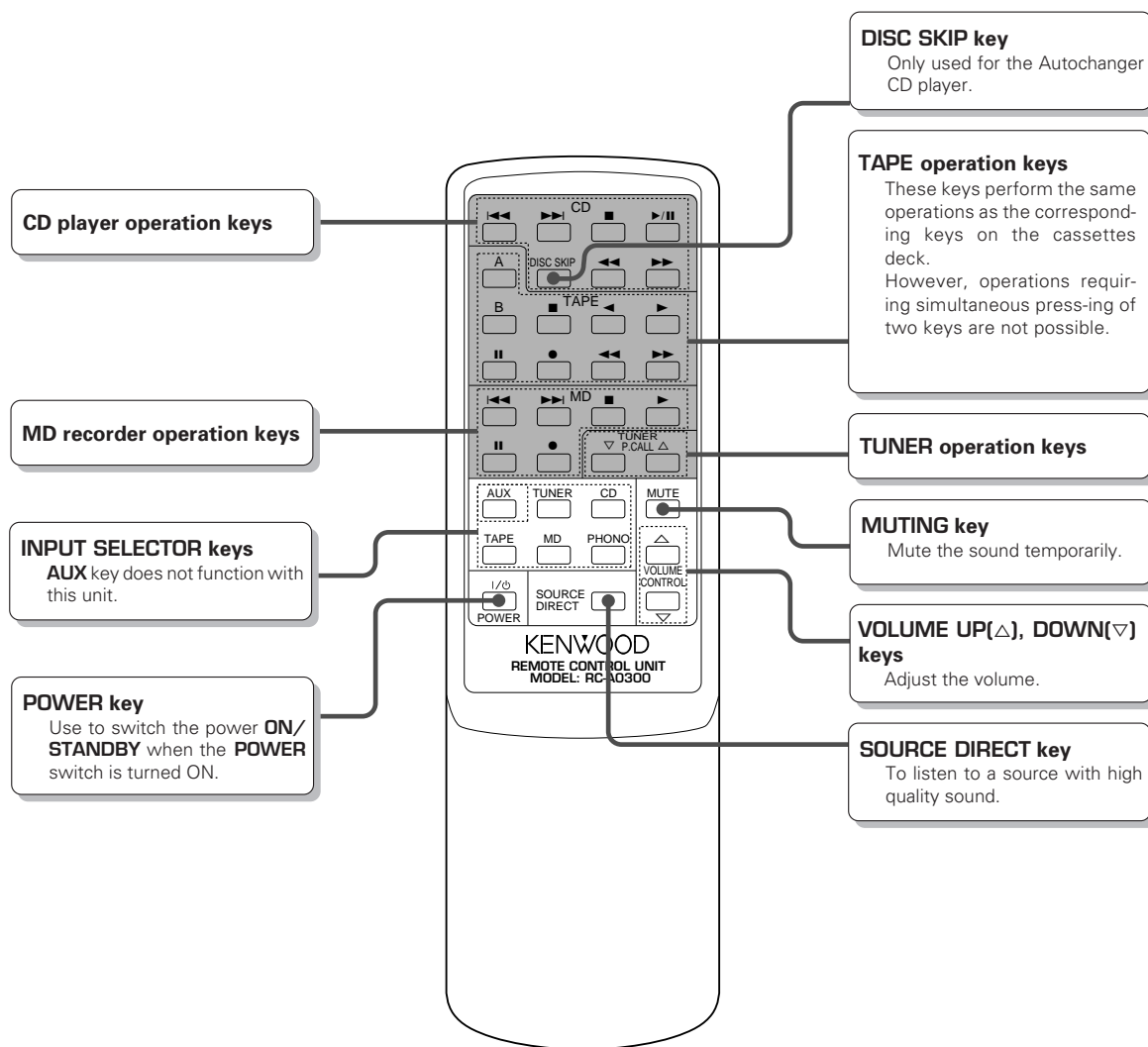
This unit has a standby indicator that lights to show that a small amount of current is being supplied to the unit in order to preserve the memory. This is called the Standby mode. When the Standby indicator is lit, the amplifier can be switched **ON / STANDBY** from the remote control.

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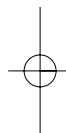
CONTROLS

Remote control unit (KAF-3010R only)

The  part of the illustration designates keys that can be used to operate KENWOOD components connected with the system control. The rest of the illustration designates keys that have the same functions as the keys on the main unit.



Model: RC-A0300
Infrared ray system

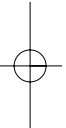


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CIRCUIT DESCRIPTION

Microprocessor : TMP87C846N (IC501)

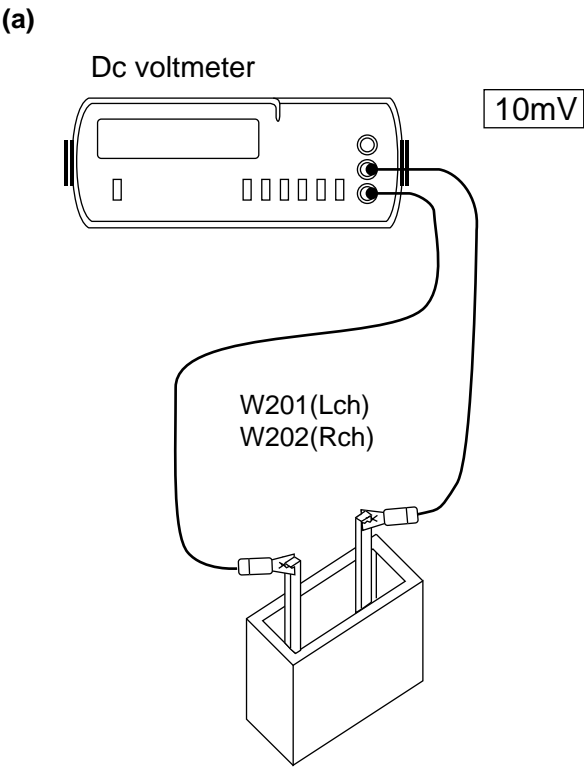
| Pin No. | Pin Name | I/O | Description |
|---------|------------|-----|--|
| 1 | DATA | O | Output of DATA signal for control of input selector. |
| 2 | CLOCK | O | Output of CLOCK signal for control of input selector. |
| 3 | ST | O | Output of STROBE signal for control of input selector. |
| 4 | NC | – | No use. |
| 5 | 8/16 | O | 8bit/16bit selector. |
| 6 | 1010/3010R | O | Model selector. |
| 7 | PROTECT | I | Protection detector. |
| 8 | REMOCON | I | Remote control signal input. |
| 9 | STANDBY | O | Standby led control signal output. |
| 10 | PHONO | O | Phono led control signal output. |
| 11 | CD | O | CD led control signal output. |
| 12 | TUNER | O | Tuner led control signal output. |
| 13 | TAPE1 | O | Tape1 led control signal output. |
| 14 | MD | O | MD led control signal output. |
| 15 | LOUDNESS | O | Loudness led control signal output. |
| 16 | MUTE | O | Mute led control signal output. |
| 17 | GND | – | Gnd. |
| 18 | RESET | I | Reset signal input. |
| 19,20 | XIN,OUT | I/O | Crystal connecting port for clock generation. |
| 21 | VSS | – | Gnd. |
| 22 | VAREF | – | Analog reference voltage input. |
| 23 | KEY | I | A/D key input. |
| 24 | POW RE | O | Power relay control signal output. |
| 25 | VOL UP | O | Motor volume control. |
| 26 | VOL DOWN | O | Motor volume control. |
| 27 | MUTE | O | Selector mute control. |
| 28 | SP | O | Speaker relay control. |
| 29 | LOUDNESS | O | Loudness control. |
| 30,31 | EN | I | Rotary encoder signal for input selector. |
| 32 | S BUSY | I/O | System serial BUSY signal interface. |
| 33 | S DATA | I/O | System serial DATA signal interface. |
| 34 | R MUTE | O | Rec mute circuit control signal output. |
| 35,36 | NC | – | No use. |
| 37 | VOL LED | O | Volume led control. |
| 38 | S DIRECT | O | S.DIRECT led control signal output. |
| 39 | POW OFF | I | Power off signal input. |
| 40,41 | NC | – | No use. |
| 42 | VDD | – | Power supply(+5V). |



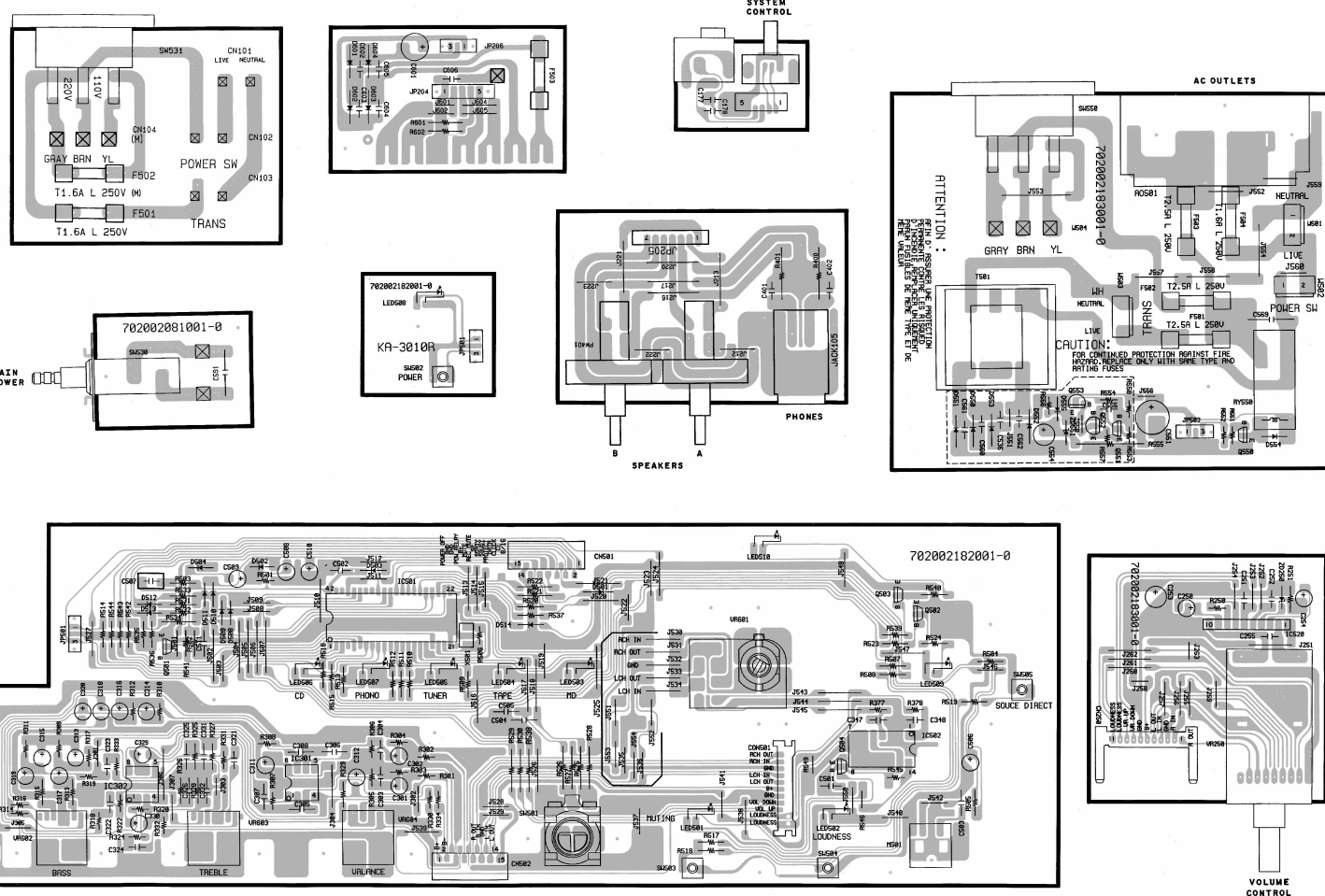
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ADJUSTMENT

| No. | ITEM | INPUT SETTINGS | OUTPUT SETTINGS | AMPLIFIER SETTINGS | ALIGNMENT POINTS | ALIGN FOR | FIG. |
|---|--------------|-------------------|---|-----------------------|--|-----------|------|
| Unless otherwise specified, the individual switches should be set as following : POWER : ON SPEAKER : B SELECTOR : PHONO | | | | | | | |
| 1 | IDLE CURRENT | — | Connect a DC voltmeter as figure W201 (Lch), W202 (Rch). (MAIN PCB) | VOLUME : 0 | VR101 (Lch) VR102 (Rch) (MAIN PCB) | 10mV | (a) |

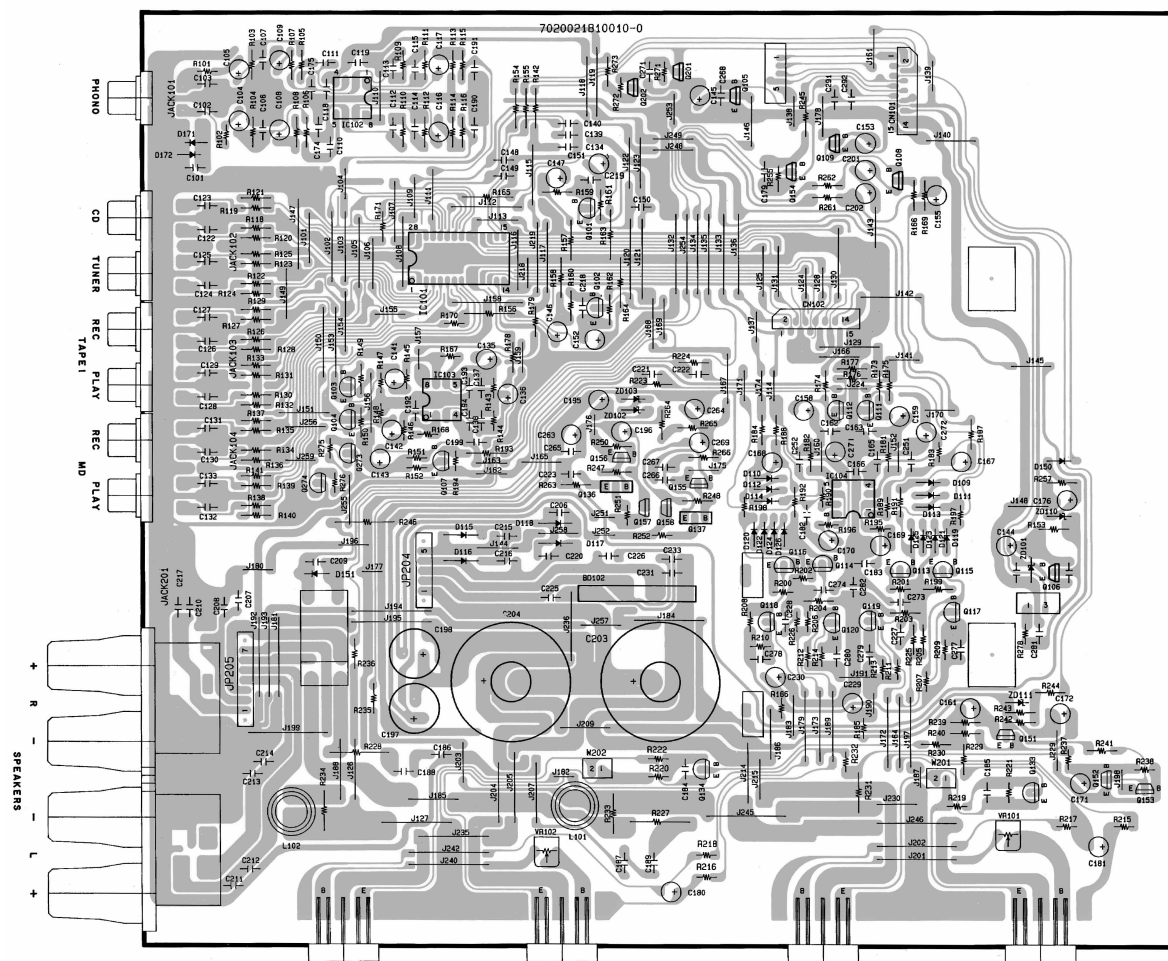


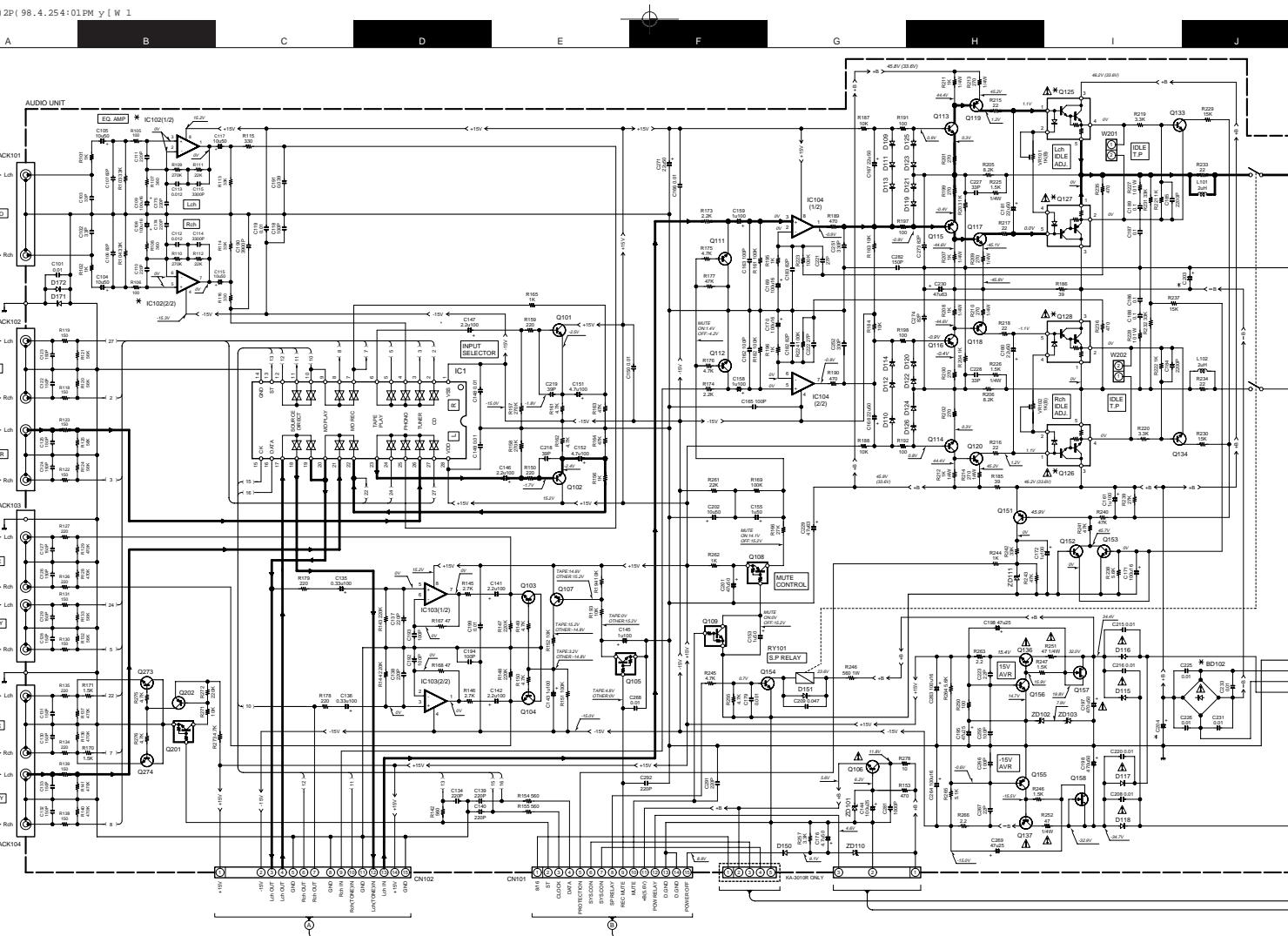
C BOARD(Component side view)

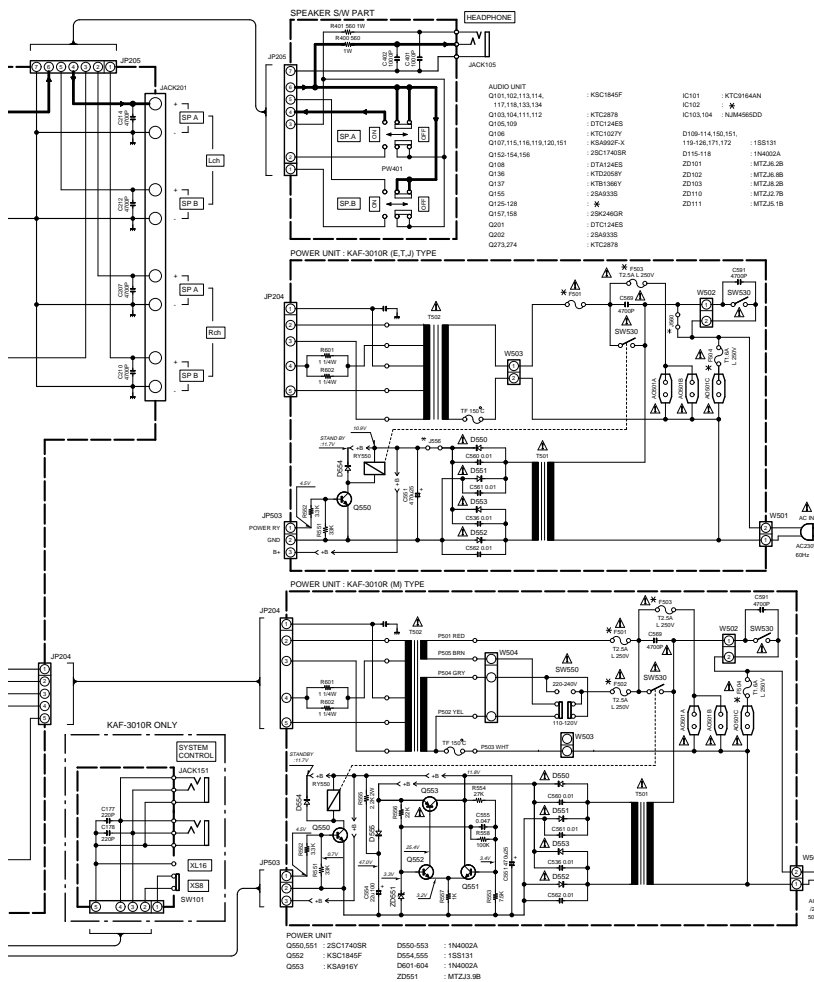




PC BOARD(Component side view)







CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). Δ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

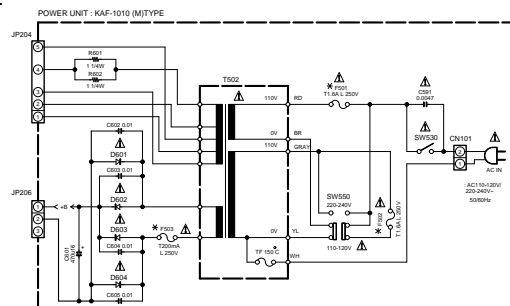
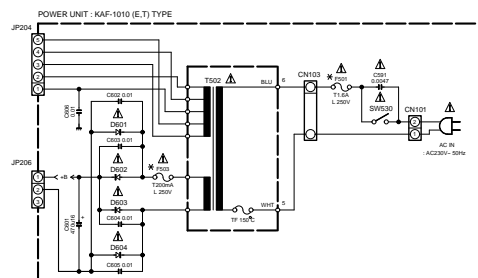
The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

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| DESTINATION | F301 | F302 | F303 | F304 | C203.204 | Q125.126 | Q127.128 | BD102 | IC102 |
|-----------------|--------------|------|------|--------------|----------|----------|----------|-------|-------|
| COUNTRY | GB | NO | NO | NO | NO | NO | NO | NO | NO |
| GENERAL WARNING | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| U.S. | T2.5A L 250V | NO | NO | T2.5A L 250V | NO | NO | NO | NO | NO |
| EUROPE | E | E | E | E | E | E | E | E | E |

KAF-1010

| DESTINATION | F301 | F302 | F303 | F304 | C203.204 | Q125.126 | Q127.128 | BD102 | IC102 |
|-----------------|--------------|------|------|---------------|----------|----------|----------|-------|-------|
| COUNTRY | GB | NO | NO | NO | NO | NO | NO | NO | NO |
| GENERAL WARNING | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| U.S. | T1.6A L 250V | NO | NO | T200mA L 250V | NO | NO | NO | NO | NO |
| EUROPE | E | E | E | E | E | E | E | E | E |



— SIGNAL LINE
 — GND LINE
 — +8
 — -8



KAF-3010R/1010(M) 1/2

KAF-1010/3010R
KENWOOD

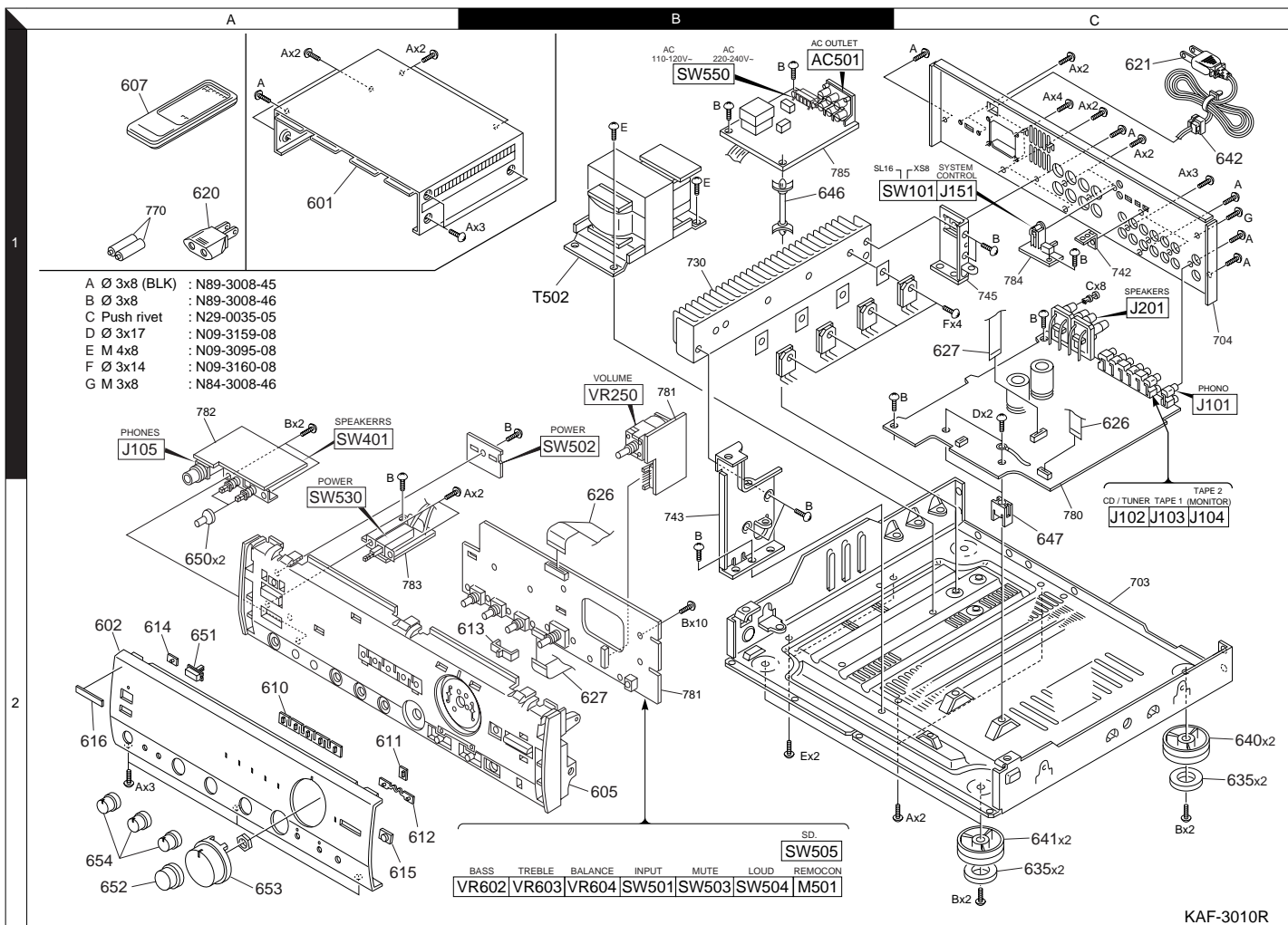
Y08-5700-51



KAF-1010/3010R

EXPLODED VIEW

Parts with exploded numbers larger than 700 are not supplied.



* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

①

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------------------|----------|-----------|-------------|---------------------------|--------------|----------|
| KAF-1010/3010R | | | | | | |
| 601 | 1A | * | A01-3630-08 | CABINET, TOP | | |
| 602 | 2A | * | A60-1491-08 | PANEL-AFTER, FRONT | | 1 |
| 602 | 2A | * | A60-1492-08 | PANEL-AFTER, FRONT | | 3 |
| 605 | 2B | * | A22-1811-08 | FRAME, FRONT | | 3 |
| 605 | 2B | * | A22-1813-08 | FRAME, FRONT | | 1 |
| 607 | 1A | * | A70-1232-08 | REMOTR CONTROL | | 3 |
| 610 | 2A | * | B19-1592-08 | LENS, FUNCTION | | |
| 611 | 2A | * | B19-1593-08 | LENS, DIRECT | | |
| 612 | 2A | * | B19-1594-08 | LENS, LOUD | | |
| 613 | 2B | * | B19-1595-08 | LENS, VOLUME | | |
| 614 | 2A | * | B19-1596-08 | LENS, POWER | | |
| 615 | 2A | * | B11-0371-08 | WINDOW, REMOCON | | 3 |
| 616 | 2A | * | B43-0302-04 | BADGE | | |
| - | | * | B46-0310-03 | WARRANTY CARD | E | |
| - | | * | B60-3742-08 | INST MANUAL-AFTER, (E) | MT | |
| - | | * | B60-3743-08 | INST MANUAL-AFTER, (F, I) | E | |
| - | | * | B60-3744-08 | INST MANUAL-AFTER, (N, G) | E | |
| - | | * | B60-3745-08 | INST MANUAL-AFTER, (ES) | EM | |
| - | | * | B60-3746-08 | INST MANUAL-AFTER, (C, T) | M | |
| 620 | 1A | * | E03-0115-05 | PLUG, CONVERSION | M | |
| 621 | 1C | * | E30-2799-08 | CORD, AC | EM | |
| 621 | 1C | * | E30-2892-08 | CORD, AC | T | |
| 626 | 2B, 1C | * | E40-8293-08 | CABLE, FLAT CARD, 15P | | |
| 627 | 2B, 1C | * | E40-8295-08 | CABLE, FLAT CARD, 15P | | |
| 635 | 2C | * | G13-0534-08 | CUSHION, FOOT | | |
| - | | * | G13-0587-08 | CUSHION, SNOW | | |
| - | | * | H25-1575-08 | POLY BAG-AFTER, SET | | |
| - | | * | H25-1601-08 | POLY BAG-AFTER, INST | | |
| - | | * | H50-2869-08 | BOX, GIFT-AFTER | ET | 3 |
| - | | * | H50-2870-08 | BOX, GIFT-AFTER | M | 3 |
| - | | * | H50-2871-08 | BOX, GIFT-AFTER | ET | 1 |
| - | | * | H50-2872-08 | BOX, GIFT-AFTER | M | 1 |
| 646 | 1B | * | J19-3631-08 | SUPPORTER, PCB | | |
| 647 | 2C | * | J19-5725-08 | SUPPORTER, PCB | | |
| 640 | 2C | * | J02-1166-08 | FOOT | | |
| 641 | 2C | * | J02-1421-08 | FOOT-AFTER | | |
| 642 | 1C | * | J42-0200-08 | STOPPER, CORD AC | | |
| 650 | 2A | * | K29-7376-08 | KNOB, SPK | | 1 |
| 651 | 2A | * | K29-6471-08 | KNOB, POWER | | 3 |
| 651 | 2A | * | K29-7378-08 | KNOB, POWER | | |
| 652 | 2A | * | K29-7379-08 | KNOB-AFTER, SELECTOR | | |
| 653 | 2A | * | K29-7381-08 | KNOB-AFTER, VOLUME | | |
| 654 | 2A | * | K29-7383-08 | KNOB-AFTER, CONTROL | | |
| T502 | 1B | * | L07-2595-08 | POWER TRANS, MAIN | ET | 1 |
| T502 | 1B | * | L07-2596-08 | POWER TRANS, MAIN | M | 1 |
| T502 | 1B | * | L07-2597-08 | POWER TRANS, MAIN | ET | 3 |
| T502 | 1B | * | L07-2598-08 | POWER TRANS, MAIN | M | 3 |
| ELECTRIC PARTS | | | | | | |
| LED501-7 | | * | B30-2536-08 | LED, ROUND, P15-RD | | |

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East, Hawaii) T: Europe E: Europe G: Germany V: China (Shanghai) 1: KAF-1010
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas 3: KAF-3010R

⚠ indicates safety critical components.

* New Parts
Parts without **Parts No.** are not supplied.
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Teile ohne **Parts No.** werden nicht geliefert.

②

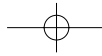
| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|-----------|----------|-----------|---------------|----------------------|--------------|----------|
| LED508 | | * | B30-2536-08 | LED, ROUND, P15-RD | | 3 |
| LED510 | | * | B30-2537-08 | LED, ROUND, P15-OR | | |
| C101 | | * | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C102, 103 | | * | CC45FCH1H330J | CERAMIC 33PF J | | |
| C104, 105 | | * | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C106, 107 | | * | CC45FCH1H820J | CERAMIC 82PF J | | |
| C108, 109 | | * | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C110, 111 | | * | CC45FCH1H221J | CERAMIC 220PF J | | |
| C112, 113 | | * | CQ92FM1H123J | MYLAR 0.012UF J | | |
| C114, 115 | | * | CQ92FM1H332J | MYLAR 3300PF J | | |
| C116, 117 | | * | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C118 | | * | CC45FCH1H101J | CERAMIC 100PF J | | |
| C119 | | * | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C122-133 | | * | CC45FCH1H151J | CERAMIC 150PF J | | |
| C134 | | * | CC45FCH1H221J | CERAMIC 220PF J | | |
| C135, 136 | | * | CE04KW2AR33M | ELECTRO 0.33UF 100WV | | |
| C137-140 | | * | CC45FCH1H221J | CERAMIC 220PF J | | |
| C141, 142 | | * | CE04KW2A2R2M | ELECTRO 2.2UF 100WV | | |
| C143 | | * | CE04KW2A010M | ELECTRO 1.0UF 100WV | | |
| C144 | | * | CE04KW1E101M | ELECTRO 100UF 25WV | | |
| C145 | | * | CE04KW2A010M | ELECTRO 1.0UF 100WV | | |
| C146, 147 | | * | CE04KW2A2R2M | ELECTRO 2.2UF 100WV | | |
| C148-150 | | * | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C151, 152 | | * | CE04KW2A4R7M | ELECTRO 4.7UF 100WV | | |
| C153 | | * | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C155 | | * | CE04KW1H010M | ELECTRO 1.0UF 50WV | | |
| C158, 159 | | * | CE04KW2A010M | ELECTRO 1.0UF 100WV | | |
| C161 | | * | CE04KW2A010M | ELECTRO 1.0UF 100WV | | |
| C162, 163 | | * | CC45FCH1H101J | CERAMIC 100PF J | | |
| C165 | | * | CC45FCH1H101J | CERAMIC 100PF J | | |
| C166 | | * | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C167, 168 | | * | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C169-171 | | * | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C172 | | * | CE04KW2A010M | ELECTRO 1.0UF 100WV | | |
| C174, 175 | | * | CC45FCH1H221J | CERAMIC 220PF J | | |
| C176 | | * | CE04KW1H4R7M | ELECTRO 4.7UF 50WV | | |
| C177, 178 | | * | CC45FCH1H221J | CERAMIC 220PF J | | |
| C179 | | * | CK45FB1H102K | CERAMIC 1000PF K | | |
| C180, 181 | | * | CE04KW1H220M | ELECTRO 22UF 50WV | | |
| C182, 183 | | * | CC45FCH1H331J | CERAMIC 330PF J | | |
| C184, 185 | | * | CK45FB1H222K | CERAMIC 2200PF K | | |
| C186-189 | | * | CQ92FM1H104J | MYLAR 0.10UF J | | |
| C190, 191 | | * | CQ92FM1H392J | MYLAR 3900PF J | | |
| C192-194 | | * | CC45FCH1H101J | CERAMIC 100PF J | | |
| C195, 196 | | * | CE04KW1E470M | ELECTRO 47UF 25WV | | |
| C197, 198 | | * | CE04KW1H471M | ELECTRO 470UF 50WV | | |
| C199 | | * | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C201 | | * | CE04KW1H470M | ELECTRO 47UF 50WV | | |
| C202 | | * | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C203, 204 | | * | CE04KW1H472M | ELECTRO 4700UF 50WV | | |
| C203, 204 | | * | CE04KW1J682M | ELECTRO 6800UF 63WV | | |
| C206 | | * | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C207 | | * | CK45FB1H472K | CERAMIC 4700PF K | | |
| C209 | | * | CQ92FM1H473J | MYLAR 0.047UF J | | |

L: Scandinavia K: USA P: Canada R: Mexico C: China I: Malaysia
Y: PX(Far East, Hawaii) T: Europe E: Europe G: Germany V: China (Shanghai) 1: KAF-1010
Y: AAFES(Europe) X: Australia Q: Russia H: Korea M: Other Areas 3: KAF-3010R

⚠ indicates safety critical components.

KAF-1010/3010R

PARTS LIST



* New Parts
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Teile ohne **Parts No.** werden nicht geliefert.

3

| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|----------|----------|-----------|---------------|-------------------------|--------------|----------|
| C210 | | | CK45FB1H472K | CERAMIC 4700PF K | | |
| C212 | | | CK45FB1H472K | CERAMIC 4700PF K | | |
| C214 | | | CK45FB1H472K | CERAMIC 4700PF K | | |
| C215,216 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C218,219 | | | CC45FSL1H681J | CERAMIC 680PF J | | 3 |
| C220 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C221,222 | | | CC45FCH1H270J | CERAMIC 27PF J | | |
| C223 | | | CC45FCH1H220J | CERAMIC 22PF J | | |
| C225,226 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C227,228 | | | CC45FSL1H331J | CERAMIC 330PF J | | |
| C229,230 | | | CE04KW1J470M | ELECTRO 47UF 63WV | | |
| C231 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C233 | | | CK45FE2H103P | CERAMIC 0.010UF P | | |
| C251,252 | | | CC45FCH1H331J | CERAMIC 330PF J | | |
| C263,264 | | | CE04KW1C101M | ELECTRO 100UF 16WV | | |
| C265,266 | | | CC45FCH1H101J | CERAMIC 100PF J | | |
| C267 | | | CC45FCH1H220J | CERAMIC 22PF J | | |
| C268 | | | CK45FB1H103K | CERAMIC 0.010UF K | | |
| C269 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | |
| C273,274 | | | CC45FSL1H331J | CERAMIC 330PF J | | |
| C277,278 | | | CK45FB1H561K | CERAMIC 560PF K | | |
| C279,280 | | | CC45FSL1H331J | CERAMIC 330PF J | | |
| C281 | | | CK45FB1H102K | CERAMIC 1000PF K | | |
| C282 | | | CC45FSL1H151J | CERAMIC 150PF J | | |
| C291,292 | | | CC45FCH1H221J | CERAMIC 220PF J | | |
| C301,302 | | | CE04KW2AR33M | ELECTRO 0.33UF 100WV | | |
| C303-306 | | | C91-0745-05 | CERAMIC 100PF K | | |
| C307,308 | | | C91-0749-05 | CERAMIC 220PF K | | |
| C311,312 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | |
| C313-316 | | | CE04KW2AR33M | ELECTRO 0.33UF 100WV | | |
| C317-320 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C321-324 | | | CQ92FM1H223J | MYLAR 0.022UF J | | |
| C325,326 | | | C91-0754-05 | CERAMIC 560PF J | | |
| C329,330 | | | CE04KW1H100M | ELECTRO 10UF 50WV | | |
| C331,332 | | | C91-0754-05 | CERAMIC 560PF J | | |
| C347,348 | | | CQ92FM1H273J | MYLAR 0.027UF J | | |
| C401,402 | | | CK45FB1H102K | CERAMIC 1000PF K | | 1 |
| C501 | | | C91-0749-05 | CERAMIC 220PF K | | |
| C502 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C503 | | | CK45FB1H471K | CERAMIC 470PF K | | 3 |
| C504,505 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C506 | | | CE04KW1E470M | ELECTRO 47UF 25WV | | 3 |
| C507 | | | C90-3741-08 | BACKUP CAP | | |
| C508 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C509 | | | CE04KW1H477M | ELECTRO 4.7UF 50WV | | |
| C510 | | | CE04KW1A101M | ELECTRO 100UF 10WV | | |
| C511 | | | C91-0769-05 | CERAMIC 0.010UF K | | |
| C536 | | | CK45FE2H103P | CERAMIC 0.010UF P | | 3 |
| C551 | | | CE04KW1E471M | ELECTRO 470UF 25WV | | 3 |
| C554 | | | CE04KW2A220M | ELECTRO 22UF 100WV | | 3 |
| C555 | | | CQ92FM1H473J | MYLAR 0.047UF J | | |
| C560-562 | | | CK45FE2H103P | CERAMIC 0.010UF P | | 3 |
| C569 | | * | C91-1571-08 | CERAMIC 0.0047UF 250VAC | | |
| C591 | | * | C91-1571-08 | CERAMIC 0.0047UF 250VAC | | |
| C601 | | * | CE04KW1C471M | ELECTRO 470UF 16WV | | 1 |

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4

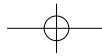
| Ref. No | Add-ress | New Parts | Parts No. | Description | Desti-nation | Re-marks |
|------------|----------|-----------|---------------|-----------------------|--------------|----------|
| C602-605 | | | CK45FB1H103K | CERAMIC 0.010UF K | | 1 |
| C606 | | | CK45FB1H103K | CERAMIC 0.010UF K | | 1 |
| Δ AO501 | | * | E03-0322-08 | SOCKET,POWER,RECEPTA | | T |
| Δ AO501 | | * | E03-0338-08 | SOCKET,POWER,RECEPTA | | E |
| Δ CN101,2 | | * | E40-8292-08 | CN,FPC,16P | | 3 |
| Δ CN501,2 | | * | E40-8294-08 | CN,FPC,16P | | |
| JACK101 | 1C | | E70-0104-08 | TER,RCA,2PIN | | |
| JACK102-4 | 2C | | E63-0186-08 | TER,RCA,4PIN | | |
| JACK105 | 1A | | E11-0263-08 | JACK,D6.5 PHONES | | 3 |
| JACK151 | 1C | | E11-0333-08 | JACK,D3.5 SYSTEM | | |
| JACK201 | 1C | * | G61408103600A | TER,BOARD SCREW 8P | | |
| Δ F501 | | | F05-1612-05 | FUSE(T1.6A,250V) | ET | 1 |
| Δ F501 | | | F05-2525-05 | FUSE(T2.5A,250V) | | 3 |
| Δ F501,502 | | | F05-1612-05 | FUSE(T1.6A,250V) | M | 1 |
| Δ F502 | | | F05-2525-05 | FUSE(T2.5A,250V) | M | 3 |
| Δ F503 | | | F05-2525-05 | FUSE(T2.5A,250V) | | |
| Δ F503 | | | F50-0008-08 | FUSE(T0.2A,250V) | | 1 |
| Δ F504 | | | F05-1612-05 | FUSE(T1.6A,250V) | EM | 3 |
| L101,102 | | * | L39-1374-08 | COIL,INDUCTOR,2UH | | |
| Δ T501 | | | L07-1987-08 | POWER TRANS,SUB | ET | 3 |
| Δ T501 | | | L07-2200-08 | POWER TRANS,SUB | M | 3 |
| X501 | | | L78-0632-08 | RESONATOR,CERAMIC | | |
| R227,228 | | | RS14GB3A100J | FL-PROOF RS 10 J 1W | | |
| R246 | | | RS14GB3A561J | FL-PROOF RS 560 J 1W | | |
| R278 | | | RN14BK2E100J | RN 10 J 1/4W | | |
| R400,401 | | | RN14BK3A561J | RN 560 J 1W | | |
| R555 | | | RS14GB3D222J | FL-PROOF RS 2.2K J 2W | M | 3 |
| VR101,102 | | * | R32-0072-08 | TRIMMING POT. | | |
| VR601 | | * | R39-0005-08 | VR,ROTARY,10K | | 1 |
| VR602,603 | | * | R39-0022-08 | VR,ROTARY,10K | | |
| VR604 | | * | R39-0023-08 | VR,ROTARY | | |
| PW401 | | * | S68-0102-08 | SW,PUSH | | |
| RY101 | | * | S76-0086-08 | RELAY | | 3 |
| RY550 | | * | S76-0087-08 | RELAY | | 3 |
| SW101 | | * | S62-0069-08 | SW,SLIDE | | |
| SW501 | 2B | * | T99-0611-08 | SW,ENCODER | | |
| SW502 | 1B | | S70-0044-08 | SW,TACT | | 3 |
| SW503-505 | 2B | | S70-0044-08 | SW,TACT | | |
| Δ SW530 | 2A | * | S68-0105-08 | SW,PUSH | M | |
| Δ SW550 | 1B | | S62-0068-08 | SW,SLIDE | | |
| Δ BD102 | | | D3SB20 | DIODE | | 1 |
| Δ BD102 | | | D5SB20 | DIODE | | 3 |
| Δ D109-114 | | | 1SS131 | DIODE | | |
| Δ D115-118 | | | 1N4002A | DIODE | | |
| D119-126 | | | 1SS131 | DIODE | | |
| D150,151 | | | 1SS131 | DIODE | | |
| D171,172 | | | 1SS131 | DIODE | | |
| D501-504 | | | 1SS131 | DIODE | | 3 |
| D508-513 | | | 1SS131 | DIODE | | |
| D514 | | | 1SS131 | DIODE | | |
| Δ D550-553 | | | 1N4002A | DIODE | | 3 |
| D554 | | | 1SS131 | DIODE | M | 3 |
| D555 | | | 1SS131 | DIODE | | 3 |

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PARTS LIST

KAF-1010/3010R



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|------------------------------|----------|-----------|--------------|----------------|--------------|----------|
| Δ D601-604 | | * | 1N4002A | DIODE | | 1 |
| IC101 | | | KIC9164AN | IC | | |
| IC102 | | | NJM4565D-D | IC(OP AMP X2) | | 1 |
| IC102 | | | NJM4580D-D | IC(OP AMP X2) | | 3 |
| IC103,104 | | | NJM4565DD | IC | | |
| IC301,302 | | * | NJM4565DD | IC | | |
| IC501 | | | TMP87C846N | IC | | |
| IC502 | | | TC4066B | IC | | |
| Q101,102 | | | KSC1845F | TRANSISTOR | | |
| Q103,104 | | | KTC2878 | TRANSISTOR | | |
| Q105 | | | DTC124ES | TRANSISTOR | | |
| Q106 | | | KTC1027Y | TRANSISTOR | | |
| Q107 | | | KSA992F-X | TRANSISTOR | | |
| Q108 | | | DTA124ES | TRANSISTOR | | |
| Q109 | | | DTC124ES | TRANSISTOR | | |
| Q111,112 | | | KTC2878 | TRANSISTOR | | |
| Q113,114 | | | KSC1845F | TRANSISTOR | | |
| Q115,116 | | | KSA992F-X | TRANSISTOR | | |
| Q117,118 | | | KSC1845F | TRANSISTOR | | |
| Q119,120 | | | KSA992F-X | TRANSISTOR | | |
| Δ Q125,126 | | | TRAI/TR2N | POWER PACK | | 1 |
| Δ Q125,126 | | | TRAI/TR4N | POWER PACK | | 3 |
| Δ Q127,128 | | | TRAI/TR2P | POWER PACK | | 1 |
| Δ Q127,128 | | | TRAI/TR4P | POWER PACK | | 3 |
| Q133,134 | | | KSC1845F | TRANSISTOR | | |
| Δ Q136 | | | KTD2058Y | TRANSISTOR | | |
| Δ Q137 | | | KTB1366Y | TRANSISTOR | | |
| Q151 | | | KSA992F-X | TRANSISTOR | | |
| Q152-154 | | | 2SC1740SR | TRANSISTOR | | |
| Q155 | | | 2SA933S | TRANSISTOR | | |
| Q156 | | | 2SC1740SR | TRANSISTOR | | |
| Q157,158 | | | 2SK246GR | FET | | |
| Q201 | | | DTC124ES | TRANSISTOR | | |
| Q202 | | | 2SA933S | TRANSISTOR | | |
| Q273,274 | | | KTC2878 | TRANSISTOR | | |
| Q501 | | | DTC144ES | TRANSISTOR | | |
| Q502,503 | | | DTC114TS | TRANSISTOR | | |
| Q504 | | | DTC144ES | TRANSISTOR | | |
| Q550 | | | 2SC1740SR | TRANSISTOR | | |
| Q551 | | | 2SC1740SR | TRANSISTOR | M | 3 |
| Q552 | | | KSC1845F | TRANSISTOR | M | 3 |
| Q553 | | | KSA916-Y | TRANSISTOR | M | 3 |
| Δ ZD101 | | | MTZJ6.2B | ZENER DIODE | | |
| ZD102 | | | MTZJ6.8B | ZENER DIODE | | |
| ZD103 | | | MTZJ8.2B | ZENER DIODE | | |
| ZD110 | | | MTZJ2.7B | ZENER DIODE | | |
| ZD111 | | | MTZJ5.1B | ZENER DIODE | | |
| ZD551 | | | MTZJ3.9B | ZENER DIODE | M | 3 |
| M501 | | * | W02-2664-08 | MODULE,REMOCON | | 3 |
| VR PCB KAF-3010R only | | | | | | |
| C250 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV |
| C251,252 | | | CK45FB1H104Z | CERAMIC | 0.10UF | Z |
| C253 | | | CE04KW1E101M | ELECTRO | 100UF | 25WV |
| C254 | | | CE04KW1H010M | ELECTRO | 1.0UF | 50WV |

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|---------|----------|-----------|--------------|----------------------|--------------|----------|
| C255 | | | CK45FB1H103K | CERAMIC 0.010UF K | | |
| R250 | | * | RN14BK2E100J | RN 10 J 1/4W | | 3 |
| VR250 | | | R39-0020-08 | VR,ROTARY MOTOR,100K | | |
| IC520 | | | BA6209N | IC(MOTOR DRIVER) | | 3 |
| ZD250 | | | MTZJ5.1B | ZENER DIODE | | 3 |

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HOW TO READ THE PARTS LIST**ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS**

| MODEL | ABB. | Australia | Canada | China | England | Europe | Germany | Korea | Malaysia |
|-----------|------|-----------|----------|--------|-------------|----------|---------|------------|----------|
| KAF-1010 | 1 | - | - | - | T | E | - | - | - |
| KAF-3010R | 3 | - | - | - | T | E | - | - | - |
| MODEL | ABB. | Mexico | PX/AAFES | Russia | Scandinavia | Shanghai | USA | Other area | |
| KAF-1010 | 1 | - | - | - | - | - | - | M | |
| KAF-3010R | 3 | - | - | - | - | - | - | M | |

KAF-1010/3010R

SPECIFICATIONS

For U.K.

Continuous rated power output

[KAF-3010R]

(DIN) 1 kHz

at 8 Ω 70 W + 70 W

at 4 Ω 100 W + 100 W

(IEC/NF) from 63 Hz to 12,500 Hz, 0.7 % T.H.D.

at 8 Ω 70 W + 70 W

at 4 Ω 100 W + 100 W

[KAF-1010]

(DIN) 1 kHz

at 8 Ω 70 W + 70 W

at 4 Ω 100 W + 100 W

(IEC/NF) from 63 Hz to 12,500 Hz, 0.7 % T.H.D.

at 8 Ω 70 W + 70 W

at 4 Ω 100 W + 100 W

Damping factor 42 (50 Hz)

Total harmonic distortion

..... 0.06 % (20~20,000 Hz, 35 W, 8 Ω)

..... 0.01 % (1 kHz, 70 W, 8 Ω)

Frequency response (IHF'78)

CD, TUNER, TAPE, MD 5 Hz~100 kHz, +0 dB, -3 dB

PHONO 'RIAA' response 20 Hz~20 kHz, +1.0 dB, -1.0 dB

Maximum input level

PHONO (MM) 120 mV, 0.5 % T.H.D. at 1 kHz

Signal to noise ratio

PHONO (MM) 77 dB (IHF'66)

CD, TUNER, TAPE, MD 105 dB (IHF'66)

PHONO (MM) 59 dB (DIN, 50 mW output)

CD, TUNER, TAPE, MD 61 dB (DIN, 50 mW output)

Input sensitivity/impedance

PHONO (MM) 2.5 mV/47 k Ω

CD, TUNER, TAPE, MD 200 mV/47 k Ω

Tone control

BASS ± 10 dB (at 100 Hz)

TREBLE ± 10 dB (at 10 kHz)

LOUDNESS control

VOLUME at -30 dB level +9 dB (at 100 Hz)

Output level/impedance

TAPE REC, MD REC 200 mV/220 Ω

General

Power consumption 200 W

AC outlet

SWITCHED 2 (total 200 W max.)

UNSWITCHED 1 (100 W max.)

Dimensions W: 440 mm

H: 123 mm

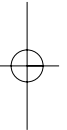
D: 395 mm

Weight (net) [KAF-3010R] 8.0 kg

[KAF-1010] 8.0 kg



1. KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
2. The full performance may not be exhibited in extremely cold location (under a water-freezing temperature).



Note:

Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on General market (M) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

KENWOOD CORPORATION

14-6,Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O BOX 22745, 2201 East Dominguez St., Long Beach, CA 90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O BOX 55-2791, Piso 6 plaza Chase, Cl. 47 y Aquilino de la Guardia Panama, Republic de Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av Indianópolis, 628, 04062-001 Planalto Paullista São Paulo-SP-Brasil

KENWOOD ELECTRONICS U.K. LIMITED

KENWOOD House, Dwight Road, Watford, Herts., WD1 8EB., United Kingdom

KENWOOD ELECTRONICS BELGUM N.V.

Meachelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13 Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori, 7/9 20129, Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001499 074)

P.O Box 504, 8 Figtree Drive, Australia Centre, Homebush, N.S.W. 2140, Australia

KENWOOD & LEE ELECTRONICS, LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

No. 1 Genting Lane #02-02, KENWOOD Building, Singapore, 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD.

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1 46300 Petaling Jaya Selangor Darul Ehsan Malaysia

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

573/111 Soi Ramkhamhaeng 39, Ramkhamhaeng Road, Wangthonglang, Bangkok, Bangkok 10301 Thailand

